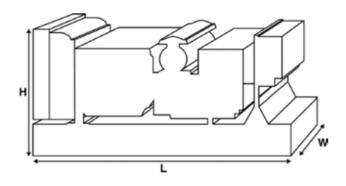


Output Ratings					
Voltage, Frequency	Prime	Standby			
kVA	30	33			
kW	24	26.4			
kVA					
kW					



Ratings at 0.8 power factor.

Please refer to the output ratings technical data section for specific generator set outputs per voltage.



Dimensions and Weights					
Length	mm	1570 (61.8)			
Width	mm	760 (29.9)			
Height	mm	1231 (48.5)			
Weight (Dry)	kg	660 (1455)			
Weight (Wet)	kg	673 (1484)			

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1.22.

Generator set pictured may include optional accessories.

Prime Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

PEGC Power Solutions offer a range of optional features to allow you to tailor our generator sets to meet your power needs. Options available include:

- Upgrade to CE Certification
- A wide range of Sound Attenuated Enclosures
- A variety of generator set control and synchronising panels
- Additional alarms and shutdowns
- A selection of exhaust silencer noise levels

For further information on all of the standard and optional features accompanying this product please contact your local Dealer or visit:

www.pegcpowersolutions.com



Ratings and Performa	ance Data		
Engine Make		Perkins	
Engine Model:		1103A-33G1	
Alternator Make			
Alternator Model:		20030	
Control Panel:		100	
Base Frame:		Heavy Duty Fabricated S	iteel
Circuit Breaker Type:		3 Pole MCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	1800
Fuel Tank Capacity:	litres (US gal)	71 (18.76)	
Fuel Consumption Prime	litres (US gal)/hr	6.9 (1.8)	
Fuel Consumption Standby	litres (US gal)/hr	7.7 (2)	
Engine Technical Dat	 a		
No. of Cylinders	-	3	
Alignment		IN LINE	
Cycle		4 STROKE	
•	n (in)	105 (4.1)	
Stroke mm (in)		127 (5)	
Induction		NATURALLY ASPIRATED	
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528 G2	
Compression Ratio		19.25:1	
Displacement L (cu. in)	3.3 (201.4)	
Moment of Inertia: kg	m² (lb/in²)	1.14 (3896)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		65	
Engine Weight Dry kg	(lb)	341 (752)	
Engine Weight Wet kg	(lb)	348 (767)	
Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Prime	kW (hp)	28.2 (38)	33.2 (45)
Gross Engine Power Standby	kW (hp)	31 (42)	36.5 (49)
BMEP Prime	kPa (psi)	684 (99.2)	669 (97.3)
BMEP Standby	kPa (psi)	752 (109)	736 (107)



Fuel System				5 1 11 -		
Fuel Filter Type:				Replaceable Ele	ement	
Recommended Fuel:			4.40.0/1	Class A2 Diesel		50 0/1
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/		7.7 (2)	6.9 (1.8)	5.2 (1.4)	3.8 (1)
50 Hz Standby	l/hr (US gal/	•	-	7.7 (2)	5.7 (1.5)	4.1 (1.1)
60 Hz Prime	l/hr (US gal/					
60 Hz Standby	l/hr (US gal/	'hr)	-			
(Based on diesel fuel with	a specific gravity o	f 0.84 and conforming	to BS2869 classA2	EN590		
Air System			5() Hz	60 Hz	
Air Filter Type:					Replaceable Elemen	t
Combustion Air Flow Pr	ime	m³/min (cfm)	2.2	. (76)		
Combustion Air Flow St	andby	m³/min (cfm)	2.2	. (76)		
Max. Combustion Air Int	ake Restriction	kPa	6.5	(26.1)		
Cooling System			5() Hz	60 Hz	
Cooling System Capacit	Y	l (US gal)	10.	2 (2.7)		
Water Pump Type:		, ,			Centrifugal	
Heat Rejected to Water	& Lube Oil: Prime	kW (Btu/min)	16	(910)		
Heat Rejected to Water & Lube Oil: Standby kW (Btu/min)		18	(1024)			
Heat Radiation to Room	*: Prime	kW (Btu/min)	8.5	i (483)		
Heat Radiation to Room	n*: Standby	kW (Btu/min)	9.8	3 (557)		
Radiator Fan Load:		kW (hp)	0.3	(0.4)		
Radiator Cooling Airflov	v:	m³/min (cfm)	62	.6 (2211)		
External Restriction to C	ooling Airflow:	Pa (in H2O)	12!	5 (0.5)		
*: Heat radiated from engir Designed to operate in aml Contact your local PEGC Po conditions.	pient conditions up		specific site			
Lubrication Syst	em					
Oil Filter Type:				Spin-On, Full Flow		
Total Oil Capacity:	l (US gal)				8.3 (2.2)	
Oil Pan Capacity:	l (US gal)				7.8 (2.1)	1.40
Oil Type:			API CG4 / CH4 15W-40		7-40	
Oil Cooling Method:					WATER	
Exhaust System) Hz	60 Hz	
Maximum Allowable Bac	ck Pressure: k	Pa (in Hg)	8 (2.4)		
Exhaust Gas Flow: Prime	e n	m³/min (cfm)		7 (201)		
Exhaust Gas Flow: Stand		n ³ /min (cfm)		3 (205)		
Exhaust Gas Temperatur	e: Prime °	C (°F)	50	0 (932)		

520 (968)

°C (°F)

Exhaust Gas Temperature: Standby



Alternator Physical	Data						
No. of Bearings:					1		
Insulation Class:					Н		
Winding Pitch:					2/3		
Winding Code					6P/6S		
Wires:					4		
Ingress Protection Rating:				IP23			
Excitation System:					SHUNT		
AVR Model:					R120		
dependant on voltage code selecte	d						
Alternator Operatir	ıg Data						
Overspeed: rpm					2250		
Voltage Regulation: (Steady	state)	%		+/- 0.5			
Wave Form NEMA = TIF:			50				
Wave Form IEC = THF: %			2				
Total Harmonic content LL/LN: %			2				
Radio Interference:			EN61000-6				
Radiant Heat: 50 Hz kW (Btu/min)				3.8 (216)			
Radiant Heat: 60 Hz		kW (Btu/min)		0 ()			
Alternator Perform	ance Da	ita 50 Hz:					
			415/240 V	400/230 V	380/220 V	220/127 V	
Voltage Code				200/115 V			
Motor Starting Capability*	kVA		49	46	42	54	
Short Circuit Capacity**	%		270	270	270	270	
	Xd		2.44	2.63	2.909	2.17	
Reactances			0.141	0.152	0.168	0.13	
	X'd				0.085	0.06	

270

270

270

270

Reactances shown are applicable to prime ratings.

Motor Starting Capability*

Short Circuit Capacity**

Reactances

kVA

%

Xd X'd X"d 270

^{*}Based on 30% voltage dip at 0.6 power factor.

^{**} With optional independant excitation system (PMG / AUX winding)

230/115V

220/127V 220/110V

208/120V

240/120220/110



Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	30	24	33	26.4
400/230V	30	24	33	26.4
380/220V	30	24	33	26.4
230/115V	30	24	33	26.4
220/127V	30	24	33	26.4
220/110V	30	24	33	26.4
200/115V	30	24	33	26.4
240V				
230V				
220V				
Output Ratings	60 Hz			
	Prime		Standby	
Voltage Code	kVA	kW	kVA	kW
480/277V				
440/254V				
416/240V				
400/230V				
380/220V				
240/139V				
240/120V				



#



P33-3_50Hz

Dealer Contact Details

Documentation

Operation and maintenance manual including circuit wiring diagrams.

Generator Set Standards

The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

Warranty

6.8 - 750 kVA electric power generation products in prime applications the warranty period is 12 months from date of start-up, unlimited hours (8760). For standby applications the warranty period is 24 months from date of start-up, limited to 500 hours per year.

730 - 2500 kVA electric power generation products in prime applications the warranty period is 12 months from date of start-up, unlimited hours (8760 hours) or 24 months from date of start-up, limited to 6000 hours. For standby applications the warranty period is 36 months from date of start-up, limited to 500 hours per year.

PEGC Power Solutions manufactures product in the following locations:

Lahore Karachi Islamabad Multan

With headquarters in Lahore, PEGC Power Solutions operates through a Global Dealer Network. To contact your local Sales Office please visit the PEGC Power Solutions website at www.pegcpowersolutions.com.

PEGC Power Solutions is a trading name of Public Electric Generator Concern (PEGC Power Solutions & Engineering Services (Pvt) Ltd.).